

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of preparing a cell population comprising stem cells for introducing into a patient, comprising:

(a) ~~obtaining adipose tissue from said patient;~~
(b) ~~processing said adipose tissue obtained from a patient to separate therefrom cells therein, wherein said processing comprises one or more procedures selected from the group consisting of:~~

- (i) ~~physical cutting or mincing of the adipose tissue;~~
- (ii) ~~treating the adipose tissue with an enzyme that facilitates the release of cells;~~
- (iii) ~~exposing the adipose tissue to ultrasonic energy; and~~
- (iv) ~~treating the adipose tissue with perfluorocarbons; from lipids and~~
- (eb) ~~purifying separating the separated released cells from the lipids, wherein said separating comprises one or more procedures selected from the group consisting of:~~
 - (i) ~~use of a density gradient;~~
 - (ii) ~~centrifugation; and~~
 - (iii) ~~filtration;~~

wherein said method does not include isolating stem cells from other cells ~~purified separated in (eb), thereby preparing a purified-cell population comprising adipose tissue-derived stem cells.~~

2. (Previously Presented) The method of claim 1, wherein said purified cell population further comprises one or more cells selected from the group consisting of: red blood cells, white blood cells, fibroblasts, neutrophils, monocyte/macrophages, and basophils.

3. (Previously Presented) The method of claim 1, wherein said purified cell population further comprises one or more tissue components selected from the group consisting of: extracellular matrix polypeptides, proteoglycans, cytokines, and growth factors.

4.-19. (Cancelled)

20. (Previously Presented) The method of claim 1 wherein the patient is an animal having a tail, and said adipose tissue is obtained from the tail head region of the patient.

21.-150. (Cancelled)

151. (New) A method of preparing a cell population comprising stem cells for introducing into a patient, comprising:

(a) processing adipose tissue obtained from a patient to release cells therein, wherein said processing comprises one or more procedures selected from the group consisting of:

(i) physical cutting or mincing of the adipose tissue;
(ii) treating the adipose tissue with an enzyme that facilitates the release of cells;

(iii) exposing the adipose tissue to ultrasonic energy; and
(iv) treating the adipose tissue with perfluorocarbons; and

(b) separating the released cells from non-cellular tissue components, wherein said separating comprises one or more procedures selected from the group consisting of:

(i) use of a density gradient;
(ii) centrifugation; and
(iii) filtration;

wherein said method does not include isolating stem cells from other cells separated in (b), thereby preparing a cell population comprising adipose tissue-derived stem cells.

152. (New) The method of claim 151, further comprising:
(c) suspending the separated cells in a physiologically compatible buffer.
153. (New) The method of claim 151, further comprising:
(c) placing the separated cells in a container.
154. (New) The method of claim 153, wherein the container is a syringe.
155. (New) The method of claim 153, further comprising shipping the container comprising the separated cells to a physician or veterinarian.
156. (New) The method of claim 1, further comprising:
(c) suspending the separated cells in a physiologically compatible buffer.
157. (New) The method of claim 1, further comprising:
(c) placing the separated cells in a container.
158. (New) The method of claim 157, wherein the container is a syringe.
159. (New) The method of claim 157, further comprising shipping the container comprising the separated cells to a physician or veterinarian.